Matthew Sullivan

github.com/mattsul
253.509.8511 matt.sulli@outlook.com mattsul.github.io

SUMMARY OF QUALIFICATIONS

- Self-starter strong in electronic project development and documentation
- Experienced in technical documentation, PCB design, circuit design, and prototype analysis
- Demonstrated performance as a team player and independent worker with analytical skills
- Hands-on experience in PSPICE, Python, Java, MATLAB, JavaScript, Eagle CAD, and Verilog
- Proven flexible problem solver with strong written and verbal communication skills

EDUCATION

University of Washington, Seattle, WA — Graduated June 2021
Bachelor of Science in Electrical and Computer Engineering — Department GPA: 3.60

WORK & LEADERSHIP EXPERIENCE

Engineering Design Instructor, University of Washington — Apr 2021 – Jun 2021

- Taught 20 freshmen engineering design, schematic design, Arduino, and computer aided design
- Organized, managed, and supported technical issues in all project phases including designing, developing, and testing
- Implemented effective communication methodologies, maintained documentation, and prepared reports for management

Front End Web Developer, Department Capstone — Jan 2021 – Jun 2021

- Created and released a scalable open-source web application to provide prognostics data sets
- Conducted tests and improved website design for responsiveness, clarity, and effectiveness
- Led discussion, organized, collected, and implemented weekly performance feedback from stakeholders to improve product

Lead Research Engineer, University of Washington — Jul 2020 – Apr 2021

- Led research and developed of an acoustic assessor for a new online hearing test while resolving research challenges
- Collected, analyzed, and evaluated audio data, revealing 87% accuracy of the true noise floor
- Documented recurring research problems, wrote software design guidelines and instruction manuals on application usage

Research Assistant, University of Washington — Dec 2017 – Jul 2018

- Collaborated with the team in developing confidential sensor while resolving research challenges
- Created documentation including bill of materials, material definition, dimensions, tolerances, and technical drawings
- Used MATLAB to analyze data that facilitated to minimize 83% of previous noise
- Identified technical issues and designed, etched, soldered, and printed circuit boards to minimize 8% of total noise
- Composed instruction manuals on data collections, data analysis, and prototype processes

PROJECTS

PCB Design — Sept 2021 - Present

- Designed and simulated 3 channel audio mixer and business card schematics in PSPICE
- Developed PCB in Eagle CAD
- Currently printing PCBs and programming TI MSP430 microcontroller